



SEQ LIST CEN0300 PCT 08.19.03.txt

SEQUENCE LISTING

<110> Huang, Chris
Song, Xiao-yu

<120> CNGH0004 POLYPEPTIDES, ANTIBODIES,

<130> CEN0300 PCT

<140> US 60/391,834
<141> 2002-06-27

<150> US 10/603,283
<151> 2003-06-25

<160> 2

<170> PatentIn version 3.1

<210> 1

<211> 11996

<212> DNA

<213> Homo sapiens

<220>

<221> CDS.

<222> (1001) ... (11716)

<223>

<400> 1

aatccctgtc aatttttgtt ctttatattt gcagtgcctc acatagttcc tggcacacaa	60
tgggtattca aaaaatattt gtaaaaatca gaaaaaatg aacaacaga tgaatgaata	120
aatgcacgac tgaagtacca tgacaaatca ttccctgttga acgcataagg ttagatgcaa	180
ctccctttag gtgtgatctg agggggccct taagggctt atctgcacgc tcacacacac	240
cactgattag aaatccccat cagggaaaattt gtacaatcat ctatggcg agggtttgg	300
gacactgaat gggggaaaag aaacacaaaa ggtgagcaag cagtttcaa aggtatgttt	360
caactccctg gccagtccgc gtgtatgtt tcgttctacaa agtgtttcca attactgtgg	420
cacttcggt atctggatcc atctccagtg aattcccttg cagtcctgc cagacatatg	480
ggatcaatca gggcttcggc gctgtgcgc ttgctgcggg aatgttgcgc gcctgacaga	540
cgcgggggttc tgggtcatg gaatctccga gcctttggct tgatcccggg aggagaatga	600
gagggggagg agggagatag agtcacagat acagaaatgt gacaggagcg gggagaggg	660
gagaggggaga gaaggaggaa agcgggagat ttttcttgac tgccccctt ccttcaaaca	720
tttttaggc ttcaggggaga gagaggaggaa ggagagaggg aaaaaaaaaa gaggagagcg	780
agaggggttag agagcgcgcg ccgttccctc cggagttccc gagctgctga ggagtcgttg	840
ttgtgtctgt ccccaagtgtc agatgaaagg ggcgtgaggg tcttggccgc tgccccgcgc	900
ccagctccgc gcacgccccct ctgcgagtc ggccgccccag cgccttcc cgccccgagcc	960
ggcgcttcgc ctccggggca gccgctctgt ctccagcgcg atg tgg cct cgc ctg	1015
Met Trp Pro Arg Leu	
1 5	
gcc ttt tgt tgc tgg ggt ctg gcg ctc gtt tcg ggc tgg gcg acc ttt	1063
Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser Gly Trp Ala Thr Phe	
10 15 20	
cag cag atg tcc ccg tcg cgc aat ttc agc ttc cgc ctc ttc ccc gag	1111
Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe Arg Leu Phe Pro Glu	
25 30 35	
acc gcg ccc ggg gcc ccc ggg agt atc ccc gcg ccg ccc gct cct ggc	1159
Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala Pro Pro Ala Pro Gly	
40 45 50	
gac gaa gcg gcg ggg agc aga gtg gag cgg ctg ggc cag gcg ttc cgg	1207
Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu Gly Gln Ala Phe Arg	
55 60 65	

SEQ LIST CEN0300 PCT 08.19.03.txt

cga	cgc	gtg	cg	ctg	ctg	cg	gag	ctc	agc	gag	cgc	ctg	gag	ctt	gtc		1255	
Arg	Arg	Val	Arg	Leu	Leu	Arg	Glu	Leu	Ser	Glu	Arg	Leu	Glu	Leu	Val			
70				75					80						85			
ttc	ctg	gtg	gat	gat	tcg	tcc	agc	gtg	ggc	gaa	gtc	aac	ttc	cgc	agc		1303	
Phe	Leu	Val	Asp	Asp	Ser	Ser	Ser	Val	Gly	Glu	Val	Asn	Phe	Arg	Ser			
					90				95					100				
gag	ctc	atg	ttc	gtc	cg	c	aag	ctg	tcc	gac	ttc	ccc	gtg	gtg	ccc		1351	
Glu	Leu	Met	Phe	Val	Arg	Lys	Leu	Leu	Ser	Asp	Phe	Pro	Val	Val	Pro			
					105				110					115				
acg	gcc	acg	cg	gtg	ggc	atc	gtg	acc	ttc	tcg	tcc	aag	aac	tac	gtg		1399	
Thr	Ala	Thr	Arg	Val	Ala	Ile	Val	Thr	Phe	Ser	Ser	Lys	Asn	Tyr	Val			
					120				125					130				
gtg	ccg	cg	gt	gc	gat	ta	atc	tcc	acc	cg	cg	cg	cag	cac	aag		1447	
Val	Pro	Arg	Val	Asp	Tyr	Ile	Ser	Thr	Arg	Arg	Ala	Arg	Gln	His	Lys			
					135				140					145				
tgc	g	cg	ct	ct	caa	gag	atc	cct	gcc	atc	tcc	ta	cga	ggt	ggc		1495	
Cys	Ala	Leu	Leu	Leu	Gln	Glu	Ile	Pro	Ala	Ile	Ser	Tyr	Arg	Gly	Gly			
					150				155					160		165		
ggc	acc	ta	acc	aag	ggc	ggc	ttc	cag	caa	ggc	ggc	caa	att	ttt	ttt		1543	
Gly	Thr	Thr	Lys	Gly	Ala	Phe	Gln	Gln	Ala	Ala	Gln	Ile	Leu	Leu				
					170				175					180				
cat	gct	aga	gaa	aac	tca	aca	aaa	gtt	gta	ttt	ctc	atc	act	gat	gga		1591	
His	Ala	Arg	Glu	Asn	Ser	Thr	Lys	Val	Val	Phe	Leu	Ile	Thr	Asp	Gly			
					185				190					195				
tat	tcc	aat	ggg	gga	gac	cct	aga	cca	att	gca	g	tg	tc	cg	gat		1639	
Tyr	Ser	Asn	Gly	Gly	Asp	Pro	Arg	Pro	Arg	Ile	Ala	Ala	Ser	Leu	Arg	Asp		
					200				205					210				
tca	gga	gt	g	ag	atc	ttc	act	ttt	ggc	ata	tgg	caa	ggg	aac	att	cga		1687
Ser	Gly	Val	Glu	Ile	Phe	Thr	Phe	Gly	Ile	Trp	Gln	Gly	Asn	Ile	Arg			
					215				220					225				
gag	ctg	aat	gac	atg	g	ct	cc	acc	cc	aag	gag	gag	cac	tgt	tg	tg		1735
Glu	Leu	Asn	Asp	Met	Ala	Ser	Thr	Pro	Lys	Glu	Glu	His	Cys	Tyr	Leu			
					230				235					240		245		
cta	ca	c	agt	ttt	gaa	gaa	ttt	gag	g	ct	cc	cg	cg	gca	tt	cat		1783
Leu	His	Ser	Phe	Glu	Glu	Phe	Glu	Ala	Leu	Ala	Arg	Arg	Ala	Leu	His			
					250				255					260				
gaa	gat	cta	cct	ttt	ggg	agt	ttt	att	caa	gat	gat	atg	gtc	cac	tgc		1831	
Glu	Asp	Leu	Pro	Ser	Gly	Ser	Phe	Ile	Gln	Asp	Asp	Met	Val	His	Cys			
					265				270					275				
tca	ta	t	tt	tgt	gat	gaa	ggc	aag	gac	tgc	tgt	gac	cga	atg	gga	agc		1879
Ser	Tyr	Leu	Cys	Asp	Glu	Gly	Lys	Asp	Cys	Cys	Cys	Asp	Arg	Met	Gly	Ser		
					280				285					290				
tgc	aaa	tgt	ggg	aca	cac	aca	ggc	cat	ttt	gag	tgc	atc	tgt	gaa	aag		1927	
Cys	Lys	Cys	Gly	Thr	His	Thr	Gly	His	Phe	Glu	Cys	Ile	Cys	Glu	Lys			
					295				300					305				
ggg	ta	ta	ggg	aaa	gg	ct	cg	tg	ta	gaa	tgc	aca	g	tc	cc		1975	
Gly	Tyr	Tyr	Gly	Lys	Gly	Leu	Gln	Tyr	Glu	Cys	Thr	Ala	Cys	Pro	Ser			
					310				315					320		325		
ggg	aca	ta	ca	aa	cct	gaa	ggc	tca	cc	gga	gga	atc	agc	agt	tgc	att	2023	
Gly	Thr	Tyr	Lys	Pro	Glu	Gly	Ser	Pro	Gly	Gly	Ile	Ser	Ser	Cys	Ile			
					330				335					340				
cca	tgt	cct	gt	at	gaa	aa	at	cac	acc	tct	cc	gga	agc	aca	tcc	cct		2071
Pro	Cys	Pro	Asp	Glu	A	n	H	is	Th	Ser	Pro	Pro	Gly	Ser	Th	Ser	Pro	
					345				350					355				
gaa	gac	tgt	gt	tg	ag	gag	gg	ta	agg	gca	tct	ggc	cag	acc	tgt		2119	
Glu	Asp	Cys	Val	Cys	Arg	Glu	Gly	Tyr	Arg	Ala	Ser	Gly	Gln	Thr	Cys			
					360				365					370				
gaa	ctt	gtc	cac	tgc	cct	ggc	ctg	aag	cct	ccc	gaa	aat	ggt	ta	ttt		2167	
Glu	Leu	Val	His	Cys	Pro	Ala	Leu	Lys	Pro	Pro	Glu	Asn	Gly	Tyr	Phe			

SEQ LIST CEN0300 PCT 08.19.03.txt

375	380	385	
atc caa aac act tgc aac aac cac ttc aat gca gcc tgt ggg gtc cga Ile Gln Asn Thr Cys Asn Asn His Phe Asn Ala Ala Cys Gly Val Arg			2215
390	395	400	405
tgt cac cct gga ttt gat ctt gtg gga agc agc atc atc tta tgt cta Cys His Pro Gly Phe Asp Leu Val Gly Ser Ser Ile Ile Leu Cys Leu			2263
410	415	420	
ccc aat ggt ttg tgg tcc ggt tca gag agc tac tgc aga gta aga aca Pro Asn Gly Leu Trp Ser Gly Ser Glu Ser Tyr Cys Arg Val Arg Thr			2311
425	430	435	
tgt cct cat ctc cgc cag ccg aaa cat ggc cac atc agc tgt tct aca Cys Pro His Leu Arg Gln Pro Lys His Gly His Ile Ser Cys Ser Thr			2359
440	445	450	
agg gaa atg tta tat aag aca aca tgt ttg gtt gcc tgt gat gaa ggg Arg Glu Met Leu Tyr Lys Thr Thr Cys Leu Val Ala Cys Asp Glu Gly			2407
455	460	465	
tac aga cta gaa ggc agt gat aag ctt act tgt caa gga aac agc cag Tyr Arg Leu Glu Gly Ser Asp Lys Leu Thr Cys Gln Gly Asn Ser Gln			2455
470	475	480	485
tgg gat ggg cca gaa ccc cgg tgt gtg gag cgc cac tgt tcc acc ttt Trp Asp Gly Pro Glu Pro Arg Cys Val Glu Arg His Cys Ser Thr Phe			2503
490	495	500	
cag atg ccc aaa gat gtc atc ata tcc ccc cac aac tgt ggc aag cag Gln Met Pro Lys Asp Val Ile Ile Ser Pro His Asn Cys Gly Lys Gln			2551
505	510	515	
cca gcc aaa ttt ggg acg atc tgc tat gta agt tgc cgc caa ggg ttc Pro Ala Lys Phe Gly Thr Ile Cys Tyr Val Ser Cys Arg Gln Gly Phe			2599
520	525	530	
att tta tct gga gtc aaa gaa atg ctg aga tgt acc act tct gga aaa Ile Leu Ser Gly Val Lys Glu Met Leu Arg Cys Thr Thr Ser Gly Lys			2647
535	540	545	
tgg aat gtc gga gtt cag gca gct gtg tgt aaa gac gtc gag gct cct Trp Asn Val Gly Val Gln Ala Ala Val Cys Lys Asp Val Glu Ala Pro			2695
550	555	560	565
caa atc aac tgt cct aag gac ata gag gct aag act ctg gaa cag caa Gln Ile Asn Cys Pro Lys Asp Ile Glu Ala Lys Thr Leu Glu Gln Gln			2743
570	575	580	
gat tct gcc aat gtt acc tgg cag att cca aca gct aaa gac aac tct Asp Ser Ala Asn Val Thr Trp Gln Ile Pro Thr Ala Lys Asp Asn Ser			2791
585	590	595	
ggt gaa aag gtc cac gtt cat cca gct ttc acc cca cct tac Gly Glu Lys Val Ser Val His Val His Pro Ala Phe Thr Pro Pro Tyr			2839
600	605	610	
ctt ttc cca att gga gat gtt gct atc gta tac acg gca act gac cta Leu Phe Pro Ile Gly Asp Val Ala Ile Val Tyr Thr Ala Thr Asp Leu			2887
615	620	625	
tcc ggc aac cag gcc agc tgc att ttc cat atc aag gtt att gat gca Ser Gly Asn Gln Ala Ser Cys Ile Phe His Ile Lys Val Ile Asp Ala			2935
630	635	640	645
gaa cca cct gtc ata gac tgg tgc aga tct cca cct ccc gtc cag gtc Glu Pro Pro Val Ile Asp Trp Cys Arg Ser Pro Pro Pro Val Gln Val			2983
650	655	660	
tcg gag aag gta cat gcc gca agc tgg gat gag cct cag ttc tca gac Ser Glu Lys Val His Ala Ala Ser Trp Asp Glu Pro Gln Phe Ser Asp			3031
665	670	675	
aac tca ggg gct gaa ttg gtc att acc aga agt cat aca caa gga gac Asn Ser Gly Ala Glu Leu Val Ile Thr Arg Ser His Thr Gln Gly Asp			3079
680	685	690	
ctt ttc cct caa ggg gag act ata gta cag tat aca gcc act gac ccc			3127

SEQ LIST CEN0300 PCT 08.19.03.txt

Leu	Phe	Pro	Gln	Gly	Glu	Thr	Ile	Val	Gln	Tyr	Thr	Ala	Thr	Asp	Pro	
695					700					705						
tca	ggc	aat	aac	agg	aca	tgt	gat	atc	cat	att	gtc	ata	aaa	ggt	tct	
Ser	Gly	Asn	Asn	Arg	Thr	Cys	Asp	Ile	His	Ile	Val	Ile	Lys	Gly	Ser	
710					715					720					725	
ccc	tgt	gaa	att	cca	ttc	aca	cct	gta	aat	ggg	gat	ttt	ata	tgc	act	
Pro	Cys	Glu	Ile	Pro	Phe	Thr	Pro	Val	Asn	Gly	Asp	Phe	Ile	Cys	Thr	
										730	735				740	
cca	gat	aat	act	gga	gtc	aac	tgt	aca	tta	act	tgc	ttg	gag	ggc	tat	
Pro	Asp	Asn	Thr	Gly	Val	Asn	Cys	Thr	Leu	Thr	Cys	Leu	Glu	Gly	Tyr	
										745	750				755	
gat	ttc	aca	gaa	ggg	tct	act	gac	aag	tat	tat	tgt	gct	tat	gaa	gat	
Asp	Phe	Thr	Glu	Gly	Ser	Thr	Asp	Lys	Tyr	Tyr	Cys	Ala	Tyr	Glu	Asp	
										760	765				770	
ggc	gtc	tgg	aaa	cca	aca	tat	acc	act	gaa	tgg	cca	gac	tgt	gcc	aaa	
Gly	Val	Trp	Lys	Pro	Thr	Tyr	Thr	Thr	Glu	Trp	Pro	Asp	Cys	Ala	Lys	
										775	780				785	
aaa	cgt	ttt	gca	aac	cac	ggg	ttc	aag	tcc	ttt	gag	atg	ttc	tac	aaa	
Lys	Arg	Phe	Ala	Asn	His	Gly	Phe	Lys	Ser	Phe	Glu	Met	Phe	Tyr	Lys	
										790	795				805	
gca	gct	cgt	tgt	gat	gac	aca	gat	ctg	atg	aag	aag	ttt	tct	gaa	gca	
Ala	Ala	Arg	Cys	Asp	Asp	Thr	Asp	Leu	Met	Lys	Lys	Phe	Ser	Glu	Ala	
										810	815				820	
ttt	gag	acg	acc	ctg	gga	aaa	atg	gtc	cca	tca	ttt	tgt	agt	gat	gca	
Phe	Glu	Thr	Thr	Leu	Gly	Lys	Met	Val	Pro	Ser	Phe	Cys	Ser	Asp	Ala	
										825	830				835	
gag	gac	att	gac	tgc	aga	ctg	gag	gag	aac	ctg	acc	aaa	aaa	tat	tgc	
Glu	Asp	Ile	Asp	Cys	Arg	Leu	Glu	Glu	Asn	Leu	Thr	Lys	Lys	Tyr	Cys	
										840	845				850	
cta	gaa	tat	aat	tat	gac	tat	gaa	aat	ggc	ttt	gca	att	gga	cca	ggt	
Leu	Glu	Tyr	Asn	Tyr	Asp	Tyr	Glu	Asn	Gly	Phe	Ala	Ile	Gly	Pro	Gly	
										855	860				865	
ggc	tgg	ggt	gca	gct	aat	agg	ctg	gat	tac	tct	tac	gat	gac	ttc	ctg	
Gly	Trp	Gly	Ala	Ala	Asn	Arg	Leu	Asp	Tyr	Ser	Tyr	Asp	Asp	Phe	Leu	
										870	875				885	
gac	act	gtg	caa	gaa	aca	gcc	aca	agc	atc	gac	aat	gcc	aag	tcc	tca	
Asp	Thr	Val	Gln	Glu	Thr	Ala	Thr	Ser	Ile	Gly	Asn	Ala	Lys	Ser	Ser	
										890	895				900	
cgg	att	aaa	aga	agt	gcc	cca	tta	tct	gac	tat	aaa	att	aag	tta	att	
Arg	Ile	Lys	Arg	Ser	Ala	Pro	Leu	Ser	Asp	Tyr	Lys	Ile	Lys	Leu	Ile	
										905	910				915	
ttt	aac	atc	aca	gct	agt	gtg	cca	tta	ccc	gat	gaa	aga	aat	aat	gat	acc
Phe	Asn	Ile	Thr	Ala	Ser	Val	Pro	Leu	Pro	Asp	Glu	Arg	Asn	Asp	Thr	
										920	925				930	
ctt	gaa	tgg	gaa	aat	cag	caa	cga	ctc	ctt	cag	aca	ttg	gaa	act	atc	
Leu	Glu	Trp	Glu	Asn	Gln	Gln	Arg	Leu	Leu	Gln	Thr	Leu	Glu	Thr	Ile	
										935	940				945	
aca	aat	aaa	ctg	aaa	agg	act	ctc	aac	aaa	gac	ccc	atg	tat	tcc	ttt	
Thr	Asn	Lys	Leu	Lys	Arg	Thr	Leu	Asn	Lys	Asp	Pro	Met	Tyr	Ser	Phe	
										950	955				965	
cag	ctt	gca	tca	gaa	ata	ctt	ata	gcc	gac	agc	aat	tca	tta	gaa	aca	
Gln	Leu	Ala	Ser	Glu	Ile	Leu	Ile	Ala	Asp	Ser	Asn	Ser	Leu	Glu	Thr	
										970	975				980	
aaa	aag	gct	tcc	ccc	ttc	tgc	aga	cca	ggc	tca	gtg	ctg	aga	ggg	cgt	
Lys	Lys	Ala	Ser	Pro	Phe	Cys	Arg	Pro	Gly	Ser	Val	Leu	Arg	Gly	Arg	
										985	990				995	
atg	tgt	gtc	aat	tgc	cct	ttg	gga	acc	tat	tat	aat	ctg	gaa	cat		
Met	Cys	Val	Asn	Cys	Pro	Leu	Gly	Thr	Tyr	Tyr	Asn	Leu	Glu	His		
										1000	1005				1010	

SEQ LIST CEN0300 PCT 08.19.03.txt

ttc acc tgt	gaa agc tgc cgg atc	gga tcc tat caa gat	gaa gaa	4081
Phe Thr Cys	Glu Ser Cys Arg	Ile Gly Ser Tyr Gln Asp	Glu Glu	
1015	1020	1025		
ggg caa ctt	gag tgc aag ctt tgc	ccc tct ggg atg tac	acg gaa	4126
Gly Gln Leu	Glu Cys Lys Leu Cys	Pro Ser Gly Met Tyr	Thr Glu	
1030	1035	1040		
tat atc cat	tca aga aac atc tct	gat tgt aaa gct cag	tgt aaa	4171
Tyr Ile His	Ser Arg Asn Ile Ser	Asp Cys Lys Ala Gln	Cys Lys	
1045	1050	1055		
caa ggc acc	tac tca tac agt gga	ctt gag act tgt gaa	tcg tgt	4216
Gln Gly Thr	Tyr Ser Tyr Ser Gly	Leu Glu Thr Cys Glu	Ser Cys	
1060	1065	1070		
cca ctg ggc	act tat cag cca aaa	ttt ggt tcc cgg agc	tgc ctc	4261
Pro Leu Gly	Thr Tyr Gln Pro Lys	Phe Gly Ser Arg Ser	Cys Leu	
1075	1080	1085		
tcg tgt cca	gaa aac acc tca act	gtg aaa aga gga gcc	gtg aac	4306
Ser Cys Pro	Glu Asn Thr Ser Thr	Val Lys Arg Gly Ala	Val Asn	
1090	1095	1100		
att tct gca	tgt gga gtt cct tgt	cca gaa gga aaa ttc	tcg cgt	4351
Ile Ser Ala	Cys Gly Val Pro Cys	Pro Glu Gly Lys Phe	Ser Arg	
1105	1110	1115		
tct ggg tta	atg ccc tgt cac cca	tgt cct cgt gac tat	tac caa	4396
Ser Gly Leu	Met Pro Cys His Pro	Cys Pro Arg Asp Tyr	Tyr Gln	
1120	1125	1130		
cct aat gca	ggg aag gcc ttc tgc	ctg gcc tgt ccc ttt	tat gga	4441
Pro Asn Ala	Gly Lys Ala Phe Cys	Leu Ala Cys Pro Phe	Tyr Gly	
1135	1140	1145		
act acc cca	ttc gct ggt tcc aga	tcc atc aca gaa tgt	tca agt	4486
Thr Thr Pro	Phe Ala Gly Ser Arg	Ser Ile Thr Glu Cys	Ser Ser	
1150	1155	1160		
ttt agt tca	act ttc tca gcg gca	gag gaa agt gtg gtg	ccc cct	4531
Phe Ser Ser	Thr Phe Ser Ala Ala	Glu Glu Ser Val Val	Pro Pro	
1165	1170	1175		
gcc tct ctt	gga cat att aaa aag	agg cat gaa atc agc	agt cag	4576
Ala Ser Leu	Gly His Ile Lys Lys	Arg His Glu Ile Ser	Ser Gln	
1180	1185	1190		
gtt ttc cat	gaa tgc ttc ttt aac	cct tgc cac aat agt	gga acc	4621
Val Phe His	Glu Cys Phe Phe Asn	Pro Cys His Asn Ser	Gly Thr	
1195	1200	1205		
tgc cag caa	ctt ggg cgt ggt tat	gtt tgt ctc tgt cca	ctt gga	4666
Cys Gln Gln	Leu Gly Arg Gly Tyr	Val Cys Leu Cys Pro	Leu Gly	
1210	1215	1220		
tat aca ggc	tta aag tgt gaa aca	gac atc gat gag tgc	agc cca	4711
Tyr Thr Gly	Leu Lys Cys Glu Thr	Asp Ile Asp Glu Cys	Ser Pro	
1225	1230	1235		
ctg cct tgc	ctc aac aat gga gtt	tgt aaa gac cta gtt	ggg gaa	4756
Leu Pro Cys	Leu Asn Asn Gly Val	Cys Lys Asp Leu Val	Gly Glu	
1240	1245	1250		
ttc att tgt	gag tgc cca tca ggt	tac aca ggt cag cgg	tgt gaa	4801
Phe Ile Cys	Glu Cys Pro Ser Gly	Tyr Thr Gly Gln Arg	Cys Glu	
1255	1260	1265		
gaa aat ata	aat gag tgt agc tcc	agt cct tgt tta aat	aaa gga	4846
Glu Asn Ile	Asn Glu Cys Ser Ser	Ser Pro Cys Leu Asn	Lys Gly	
1270	1275	1280		
atc tgt gtt	gat ggt gtg gct ggc	tat cgt tgc aca tgt	gtg aaa	4891
Ile Cys Val	Asp Gly Val Ala Gly	Tyr Arg Cys Thr Cys	Val Lys	
1285	1290	1295		
gga ttt gta	ggc ctg cat tgt gaa	aca gaa gtc aat gaa	tgc cag	4936
Gly Phe Val	Gly Leu His Cys Glu	Thr Glu Val Asn Glu	Cys Gln	

SEQ LIST CEN0300 PCT 08.19.03.txt						
1300	tca aac cca	tgc tta aat aat	gca gtc tgt gaa gac	cag cgt gtt ggg	1310	4981
Ser Asn Pro	Cys Leu Asn Asn	Ala Ala Val Cys Glu Asp	Gln Gln Val Gly			
1315		1320		1325		
gga ttc ttg	tgc aaa tgc cca	cct gga ttt ttg ggt	acc acc cga tgt		5026	
Gly Phe Leu	Cys Lys Cys Pro	Pro Gly Phe Leu Gly	Thr Arg Cys			
1330		1335		1340		
gga aag aac	gtc gat gag tgt	ctc agt cag cca tgc	aaa aat gga		5071	
Gly Lys Asn	Val Asp Glu Cys	Leu Ser Gln Pro Cys	Lys Lys Asn Gly			
1345		1350		1355		
gct acc tgt	aaa gac ggt gcc	aat agc ttc aga tgc	ctg tgt gca		5116	
Ala Thr Cys	Lys Asp Gly Ala	Asn Ser Phe Arg Cys	Leu Cys Ala			
1360		1365		1370		
gct ggc ttc	aca gga tca cac	tgt gaa ttg aac atc	aat gaa tgt		5161	
Ala Gly Phe	Thr Gly Ser His	Cys Glu Leu Asn Ile	Asn Glu Cys			
1375		1380		1385		
cag tct aat	cca tgt aga aat	cag gcc acc tgt gtg	gat gaa tta		5206	
Gln Ser Asn	Pro Cys Arg Asn	Gln Ala Thr Cys Val	Asp Glu Leu			
1390		1395		1400		
aat tca tac	agt tgt aaa tgt	cag cca gga ttt tca	ggc aaa agg		5251	
Asn Ser Tyr	Ser Cys Lys Cys	Gln Pro Gly Phe Ser	Gly Lys Arg			
1405		1410		1415		
tgt gaa aca	gaa cag tct aca	ggc ttt aac ctg gat	ttt gaa gtt		5296	
Cys Glu Thr	Glu Gln Ser Thr	Gly Phe Asn Leu Asp	Phe Glu Val			
1420		1425		1430		
tct ggc atc	tat gga tat gtc	atg cta gat ggc atg	ctc cca tct		5341	
Ser Gly Ile	Tyr Gly Tyr Val	Met Leu Asp Gly Met	Leu Pro Ser			
1435		1440		1445		
ctc cat gct	cta acc tgt acc	ttc tgg atg aaa tcc	tct gac gac		5386	
Leu His Ala	Leu Thr Cys Thr	Phe Trp Met Lys Ser	Ser Asp Asp			
1450		1455		1460		
atg aac tat	gga aca cca atc	tcc tat gca gtt gat	aac ggc agc		5431	
Met Asn Tyr	Gly Thr Pro Ile	Ser Tyr Ala Val Asp	Asn Gly Ser			
1465		1470		1475		
gac aat acc	ttg ctc ctg act	gat tat aac ggc tgg	ttt ctt tat		5476	
Asp Asn Thr	Leu Leu Leu Thr	Asp Tyr Asn Gly Trp	Val Val Leu Tyr			
1480		1485		1490		
gtg aat ggc	agg gaa aag ata	aca aac tgt ccc tcg	gtg aat gat		5521	
Val Asn Gly	Arg Glu Lys Ile	Thr Asn Cys Pro Ser	Val Val Asn Asp			
1495		1500		1505		
ggc aga tgg	cat cat att gca atc	act tgg aca agt	gcc aat ggc		5566	
Gly Arg Trp	His His Ile Ala	Ile Thr Trp Thr Ser	Ala Asn Gly			
1510		1515		1520		
atc tgg aaa	gtc tat atc gat	ggg aaa tta tct gac	ggt ggt gct		5611	
Ile Trp Lys	Val Tyr Ile Asp	Gly Lys Leu Ser Asp	Gly Gly Ala			
1525		1530		1535		
ggc ctc tct	gtt ggt ttg ccc	ata cct ggt ggt ggt	gcg tta gtt		5656	
Gly Leu Ser	Val Gly Leu Pro	Ile Pro Gly Gly Gly	Ala Leu Val			
1540		1545		1550		
ctg ggg caa	gag caa gac aaa	aaa gga gag gga ttc	agc cca gct		5701	
Leu Gly Gln	Glu Gln Asp Lys	Lys Gly Glu Gly Phe	Ser Pro Ala			
1555		1560		1565		
gag tct ttt	gtg ggc tcc ata	agc cag ctc aac ctc	tgg gac tat		5746	
Glu Ser Phe	Val Gly Ser Ile	Ser Gln Leu Asn Leu	Trp Asp Tyr			
1570		1575		1580		
gtc ctg tct	cca cag cag gtg	aag tca ctg gct acc	tcc tgc cca		5791	
Val Leu Ser	Pro Gln Gln Val	Lys Ser Leu Ala Thr	Ser Ser Cys Pro			
1585		1590		1595		
gag gaa ctc	agt aaa gga aac	gtg tta gca tgg cct	gat ttc ttg		5836	

SEQ LIST CEN0300 PCT 08.19.03.txt

Glu	Glu	Leu	Ser	Lys	Gly	Asn	Val	Leu	Ala	Trp	Pro	Asp	Phe	Leu	
1600							1605						1610		
tca	gga	att	gtg	ggg	aaa	gtg	aag	atc	gat	tct	aag	agc	ata	ttt	5881
Ser	Gly	Ile	Val	Gly	Lys	Val	Lys	Ile	Asp	Ser	Lys	Ser	Ile	Phe	
1615							1620						1625		
tgt	tct	gat	tgc	cca	cgc	tta	gga	ggg	tca	gtg	cct	cat	ctg	aga	5926
Cys	Ser	Asp	Cys	Pro	Arg	Leu	Gly	Gly	Ser	Val	Pro	His	Leu	Arg	
1630							1635						1640		
act	gca	tct	gaa	gat	tta	aag	cca	ggg	tcc	aaa	gtc	aat	ctg	ttc	5971
Thr	Ala	Ser	Glu	Asp	Leu	Lys	Pro	Gly	Ser	Lys	Val	Asn	Leu	Phe	
1645							1650						1655		
tgt	gat	cca	ggc	ttc	cag	ctg	gtc	ggg	aac	cct	gtg	cag	tac	tgt	6016
Cys	Asp	Pro	Gly	Phe	Gln	Leu	Val	Gly	Asn	Pro	Val	Gln	Tyr	Cys	
1660							1665						1670		
ctg	aat	caa	gga	cag	tgg	aca	caa	cca	ctt	cct	cac	tgt	gaa	cgc	6061
Leu	Asn	Gln	Gly	Gln	Trp	Thr	Gln	Pro	Leu	Pro	His	Cys	Glu	Arg	
1675							1680						1685		
att	agc	tgt	ggg	gtg	cca	cct	cct	ttg	gag	aat	ggc	ttc	cat	tca	6106
Ile	Ser	Cys	Gly	Val	Pro	Pro	Pro	Leu	Glu	Asn	Gly	Phe	His	Ser	
1690							1695						1700		
gcc	gat	gac	ttc	tat	gct	ggc	agc	aca	gta	acc	tac	cag	tgc	aac	6151
Ala	Asp	Asp	Phe	Tyr	Ala	Gly	Ser	Thr	Val	Thr	Tyr	Gln	Cys	Asn	
1705							1710						1715		
aat	ggc	tac	tat	cta	ttg	ggt	gac	tca	agg	atg	ttc	tgt	aca	gat	6196
Asn	Gly	Tyr	Tyr	Leu	Leu	Gly	Asp	Ser	Arg	Met	Phe	Cys	Thr	Asp	
1720							1725						1730		
aat	ggg	agc	tgg	aac	ggc	gtt	tca	cca	tcc	tgc	ctt	gat	gtc	gat	6241
Asn	Gly	Ser	Trp	Asn	Gly	Val	Ser	Pro	Ser	Cys	Leu	Asp	Val	Asp	
1735							1740						1745		
gag	tgt	gca	gtt	gga	tca	gat	tgt	agt	gag	cat	gct	tct	tgc	ctg	6286
Glu	Cys	Ala	Val	Gly	Ser	Asp	Cys	Ser	Glu	His	Ala	Ser	Cys	Leu	
1750							1755						1760		
aac	gta	gat	gga	tcc	tac	ata	tgt	tca	tgt	gtc	cca	ccg	tac	aca	6331
Asn	Val	Asp	Gly	Ser	Tyr	Ile	Cys	Ser	Cys	Val	Pro	Pro	Tyr	Thr	
1765							1770						1775		
gga	gat	ggg	aaa	aac	tgt	gca	gaa	cct	ata	aaa	tgt	aag	gct	cca	6376
Gly	Asp	Gly	Lys	Asn	Cys	Ala	Glu	Pro	Ile	Lys	Cys	Lys	Ala	Pro	
1780							1785						1790		
gga	aat	ccg	gaa	aat	ggc	cac	tcc	tca	ggt	gag	att	tat	aca	gta	6421
Gly	Asn	Pro	Glu	Asn	Gly	His	Ser	Ser	Gly	Glu	Ile	Tyr	Thr	Val	
1795							1800						1805		
ggt	gcc	gca	gtc	aca	ttt	tcg	tgt	cag	gaa	gga	tac	cag	ttg	atg	6466
Gly	Ala	Ala	Val	Thr	Phe	Ser	Cys	Gln	Glu	Gly	Tyr	Gln	Leu	Met	
1810							1815						1820		
gga	gta	acc	aaa	atc	aca	tgt	ttg	gag	tct	gga	gaa	tgg	aat	cat	6511
Gly	Val	Thr	Lys	Ile	Thr	Cys	Leu	Glu	Ser	Gly	Glu	Trp	Asn	His	
1825							1830						1835		
cta	ata	cca	tat	tgt	aaa	gct	gtt	tca	tgt	ggt	aaa	ccg	gct	att	6556
Leu	Ile	Pro	Tyr	Cys	Lys	Ala	Val	Ser	Cys	Gly	Lys	Pro	Ala	Ile	
1840							1845						1850		
cca	gaa	aat	ggt	tgc	att	gag	gag	tta	gca	ttt	act	ttt	ggc	agc	6601
Pro	Glu	Asn	Gly	Cys	Ile	Glu	Glu	Leu	Ala	Phe	Thr	Phe	Gly	Ser	
1855							1860						1865		
aaa	gtg	aca	tat	agg	tgt	aat	aaa	gga	tat	act	ctg	gcc	ggt	gat	6646
Lys	Val	Thr	Tyr	Arg	Cys	Asn	Lys	Gly	Tyr	Thr	Leu	Ala	Gly	Asp	
1870							1875						1880		
aaa	gaa	tca	tcc	tgt	ctt	gct	aac	agt	tct	tgg	agt	cat	tcc	cct	6691
Lys	Glu	Ser	Ser	Cys	Leu	Ala	Asn	Ser	Ser	Trp	Ser	His	Ser	Pro	
1885							1890						1895		

SEQ LIST CEN0300 PCT 08.19.03.txt

cct	gtg	tgt	gaa	cca	gtg	aag	tgt	tct	agt	ccg	gaa	aat	ata	aat	6736
Pro	Val	Cys	Glu	Pro	Val	Lys	Cys	Ser	Ser	Pro	Glu	Asn	Ile	Asn	
1900							1905					1910			
aat	gga	aaa	tat	att	ttg	agt	ggg	ctt	acc	tac	ctt	tct	act	gca	6781
Asn	Gly	Lys	Tyr	Ile	Leu	Ser	Gly	Leu	Thr	Tyr	Leu	Ser	Thr	Ala	
1915							1920					1925			
tca	tat	tca	tgc	gat	aca	gga	tac	agc	tta	cag	ggc	cct	tcc	att	6826
Ser	Tyr	Ser	Cys	Asp	Thr	Gly	Tyr	Ser	Leu	Gln	Gly	Pro	Ser	Ile	
1930							1935					1940			
att	gaa	tgc	acg	gct	tct	ggc	atc	tgg	gac	aga	gcg	cca	cct	gcc	6871
Ile	Glu	Cys	Thr	Ala	Ser	Gly	Ile	Trp	Asp	Arg	Ala	Pro	Pro	Ala	
1945							1950					1955			
tgt	cac	ctc	gtc	ttc	tgt	gga	gaa	cca	cct	gcc	atc	aaa	gat	gct	6916
Cys	His	Leu	Val	Phe	Cys	Gly	Glu	Pro	Pro	Ala	Ile	Lys	Asp	Ala	
1960							1965					1970			
gtc	att	acg	ggg	aat	aac	ttc	act	ttc	agg	aac	acc	gtc	act	tac	6961
Val	Ile	Thr	Gly	Asn	Asn	Phe	Thr	Phe	Arg	Asn	Thr	Val	Thr	Tyr	
1975							1980					1985			
act	tgc	aaa	gaa	ggc	tat	act	ctt	gct	ggt	ctt	gac	acc	att	gaa	7006
Thr	Cys	Lys	Glu	Gly	Tyr	Thr	Leu	Ala	Gly	Leu	Asp	Thr	Ile	Glu	
1990							1995					2000			
tgc	ctg	gcc	gac	ggc	aag	tgg	agt	aga	agt	gac	cag	cag	tgc	ctg	7051
Cys	Leu	Ala	Asp	Gly	Lys	Trp	Ser	Arg	Ser	Asp	Gln	Gln	Cys	Leu	
2005							2010					2015			
gct	gtc	tcc	tgt	gat	gag	cca	ccc	att	gtg	gac	cac	gcc	tct	cca	7096
Ala	Val	Ser	Cys	Asp	Glu	Pro	Pro	Ile	Val	Asp	His	Ala	Ser	Pro	
2020							2025					2030			
gag	act	gcc	cat	cgg	ctc	ttt	gga	gac	att	gca	ttc	tac	tac	tgc	7141
Glu	Thr	Ala	His	Arg	Leu	Phe	Gly	Asp	Ile	Ala	Phe	Tyr	Tyr	Cys	
2035							2040					2045			
tct	gat	ggt	tac	agc	cta	gca	gac	aat	tcc	cag	ctt	ctc	tgc	aat	7186
Ser	Asp	Gly	Tyr	Ser	Leu	Ala	Asp	Asn	Ser	Gln	Leu	Leu	Cys	Asn	
2050							2055					2060			
gcc	cag	ggc	aag	tgg	gta	ccc	cca	gaa	ggt	caa	gac	atg	ccc	cgt	7231
Ala	Gln	Gly	Lys	Trp	Val	Pro	Pro	Glu	Gly	Gln	Asp	Met	Pro	Arg	
2065							2070					2075			
tgt	ata	gct	cat	tcc	tgt	gaa	aaa	cct	cca	tcg	gtt	tcc	tat	agc	7276
Cys	Ile	Ala	His	Phe	Cys	Glu	Lys	Pro	Pro	Ser	Val	Ser	Tyr	Ser	
2080							2085					2090			
atc	ttg	gaa	tct	gtg	agc	aaa	gca	aaa	ttt	gca	gct	ggc	tca	gtt	7321
Ile	Leu	Glu	Ser	Val	Ser	Lys	Ala	Lys	Phe	Ala	Ala	Gly	Ser	Val	
2095							2100					2105			
gtg	agc	ttt	aaa	tgc	atg	gaa	ggc	ttt	gta	ctg	aac	acc	tca	gca	7366
Val	Ser	Phe	Lys	Cys	Met	Glu	Gly	Phe	Val	Leu	Asn	Thr	Ser	Ala	
2110							2115					2120			
aag	att	gaa	tgt	atg	aga	ggt	ggg	cag	tgg	aac	cct	tcc	ccc	atg	7411
Lys	Ile	Glu	Cys	Met	Arg	Gly	Gly	Gln	Trp	Asn	Pro	Ser	Pro	Met	
2125							2130					2135			
tcc	atc	cag	tgc	atc	cct	gtg	cg	tgt	gga	gag	cca	cca	agc	atc	7456
Ser	Ile	Gln	Cys	Ile	Pro	Val	Arg	Cys	Gly	Glu	Pro	Pro	Ser	Ile	
2140							2145					2150			
atg	aat	ggc	tat	gca	agt	gga	tca	aac	tac	agt	ttt	gga	gcc	atg	7501
Met	Asn	Gly	Tyr	Ala	Ser	Gly	Ser	Asn	Tyr	Ser	Phe	Gly	Ala	Met	
2155							2160					2165			
gtg	gct	tac	agc	tgc	aac	aag	ggg	ttc	tac	atc	aaa	ggg	gaa	aag	7546
Val	Ala	Tyr	Ser	Cys	Asn	Lys	Gly	Phe	Tyr	Ile	Lys	Gly	Glu	Lys	
2170							2175					2180			
aag	agc	acc	tgc	gaa	gcc	aca	ggg	cag	tgg	agt	agt	cct	ata	ccg	7591
Lys	Ser	Thr	Cys	Glu	Ala	Thr	Gly	Gln	Trp	Ser	Ser	Pro	Ile	Pro	

SEQ LIST CEN0300 PCT 08.19.03.txt

2185	2190	2195		
acg tgc cac ccg gta tct tgt	ggt gaa cca cct aag gtt gag aat		7636	
Thr Cys His Pro Val Ser Cys	Gly Glu Pro Pro Lys Val Glu Asn			
2200	2205	2210		
ggc ttt ctg gag cat aca act ggc	agg atc ttt gag agt gaa gtg		7681	
Gly Phe Leu Glu His Thr Thr	Gly Arg Ile Phe Glu Ser Glu Val			
2215	2220	2225		
agg tat cag tgt aac ccg ggc	tat aag tca gtc gga agt cct gta		7726	
Arg Tyr Gln Cys Asn Pro Gly	Tyr Lys Ser Val Gly Ser Pro Val			
2230	2235	2240		
ttt gtc tgc caa gcc aat cgc	cac tgg cac agt gaa tcc cct ctg		7771	
Phe Val Cys Gln Ala Asn Arg	His Trp His Ser Glu Ser Pro Leu			
2245	2250	2255		
atg tgt gtt cct ctc gac tgt	gga aaa cct ccc ccg atc cag aat		7816	
Met Cys Val Pro Leu Asp Cys	Gly Lys Pro Pro Pro Ile Gln Asn			
2260	2265	2270		
ggc ttc atg aaa gga gaa aac ttt	gaa gta ggg tcc aag gtt cag		7861	
Gly Phe Met Lys Gly Glu Asn	Phe Glu Val Gly Ser Lys Val Gln			
2275	2280	2285		
ttt ttc tgt aat gag ggt tat gag	ctt gtt ggt gac agt tct tgg		7906	
Phe Phe Cys Asn Glu Gly Tyr	Glu Leu Val Gly Asp Ser Ser Trp			
2290	2295	2300		
aca tgt cag aaa tct ggc aaa tgg	aat aag aag tca aat cca aag		7951	
Thr Cys Gln Lys Ser Gly Lys	Trp Asn Lys Lys Ser Asn Pro Lys			
2305	2310	2315		
tgc atg cct gcc aag tgc cca gag	ccg ccc ctc ttg gaa aac cag		7996	
Cys Met Pro Ala Lys Cys Pro	Glu Pro Pro Leu Leu Glu Asn Gln			
2320	2325	2330		
cta gta tta aag gag ttg acc acc	gag gta gga gtt gtg aca ttt		8041	
Leu Val Leu Lys Glu Leu Thr	Thr Glu Val Gly Val Val Thr Phe			
2335	2340	2345		
tgc tgt aaa gaa ggg cat gtc ctg	caa ggc ccc tct gtc ctg aaa		8086	
Ser Cys Lys Glu Gly His Val	Leu Gln Gly Pro Ser Val Leu Lys			
2350	2355	2360		
tgc ttg cca tcc cag caa tgg aat	gac tct ttc cct gtt tgt aag		8131	
Cys Leu Pro Ser Gln Gln Trp	Asn Asp Ser Phe Pro Val Cys Lys			
2365	2370	2375		
att gtt ctt tgt acc cca cct ccc	cta att tcc ttt ggt gtc ccc		8176	
Ile Val Leu Cys Thr Pro Pro	Pro Leu Ile Ser Phe Gly Val Pro			
2380	2385	2390		
att cct tct tct gct ctt cat ttt	gga agt act gtc aag tat tct		8221	
Ile Pro Ser Ser Ala Leu His	Phe Gly Ser Thr Val Lys Tyr Ser			
2395	2400	2405		
tgt gta ggt ggg ttt ttc cta aga	gga aat tct acc acc ctc tgc		8266	
Cys Val Gly Gly Phe Phe Leu	Arg Gly Asn Ser Thr Thr Leu Cys			
2410	2415	2420		
caa cct gat ggc acc tgg agc tct	cca ctg cca gaa tgt gtt cca		8311	
Gln Pro Asp Gly Thr Trp Ser	Ser Pro Leu Pro Glu Cys Val Pro			
2425	2430	2435		
gta gaa tgt ccc caa cct gag gaa	atc ccc aat gga atc att gat		8356	
Val Glu Cys Pro Gln Pro Glu	Glu Ile Pro Asn Gly Ile Ile Asp			
2440	2445	2450		
gtg caa ggc ctt gcc tat ctc agc	aca gct ctc tat acc tgc aag		8401	
Val Gln Gly Leu Ala Tyr Leu	Ser Thr Ala Leu Tyr Thr Cys Lys			
2455	2460	2465		
cca ggc ttt gaa ttg gtg gga aat	act acc acc ctt tgt gga gaa		8446	
Pro Gly Phe Glu Leu Val Gly	Asn Thr Thr Thr Leu Cys Gly Glu			
2470	2475	2480		
aat ggt cac tgg ctt gga gga aaa	cca aca tgt aaa gcc att gag		8491	

SEQ LIST CEN0300 PCT 08.19.03.txt

Asn	Gly	His	Trp	Leu	Gly	Gly	Lys	Pro	Thr	Cys	Lys	Ala	Ile	Glu	
2485							2490					2495			
tgc	ctg	aaa	ccc	aag	gag	att	ttg	aat	ggc	aaa	ttc	tct	tac	acg	8536
Cys	Leu	Lys	Pro	Lys	Glu	Ile	Leu	Asn	Gly	Lys	Phe	Ser	Tyr	Thr	
2500							2505					2510			
gac	cta	cac	tat	gga	cag	acc	gtt	acc	tac	tct	tgc	aac	cga	ggc	8581
Asp	Leu	His	Tyr	Gly	Gln	Thr	Val	Thr	Tyr	Ser	Cys	Asn	Arg	Gly	
2515							2520					2525			
ttt	cg	ctc	gaa	ggt	ccc	agt	gcc	ttg	acc	tgt	tta	gag	aca	ggt	8626
Phe	Arg	Leu	Glu	Gly	Pro	Ser	Ala	Leu	Thr	Cys	Leu	Glu	Thr	Gly	
2530							2535					2540			
gat	tgg	gat	gta	gat	gcc	cca	tct	tgc	aat	gcc	atc	cac	tgt	gat	8671
Asp	Trp	Asp	Val	Asp	Ala	Pro	Ser	Ser	Cys	Asn	Ala	Ile	His	Cys	Asp
2545							2550					2555			
tcc	cca	caa	ccc	att	gaa	aat	ggt	ttt	gta	gaa	ggt	gca	gat	tac	8716
Ser	Pro	Gln	Pro	Ile	Glu	Asn	Gly	Phe	Val	Glu	Gly	Ala	Asp	Tyr	
2560							2565					2570			
agc	tat	ggt	gcc	ata	atc	atc	tac	agt	tgc	ttc	cct	ggg	ttt	cag	8761
Ser	Tyr	Gly	Ala	Ile	Ile	Ile	Tyr	Ser	Cys	Phe	Pro	Gly	Phe	Gln	
2575							2580					2585			
gtg	gct	ggt	cat	gcc	atg	cag	acc	tgt	gaa	gag	tca	gga	tgg	tca	8806
Val	Ala	Gly	His	Ala	Met	Gln	Thr	Cys	Glu	Glu	Ser	Gly	Trp	Ser	
2590							2595					2600			
agt	tcc	atc	cca	aca	tgt	atg	cca	ata	gac	tgt	ggc	ctc	cct	cct	8851
Ser	Ser	Ile	Pro	Thr	Cys	Met	Pro	Ile	Asp	Cys	Gly	Leu	Pro	Pro	
2605							2610					2615			
cat	ata	gat	ttt	gga	gac	tgt	act	aaa	ctc	aaa	gat	gac	cag	gga	8896
His	Ile	Asp	Phe	Gly	Asp	Cys	Thr	Lys	Leu	Lys	Asp	Asp	Gln	Gly	
2620							2625					2630			
tat	ttt	gag	caa	gaa	gac	gac	atg	atg	gaa	gtt	cca	tat	gtg	act	8941
Tyr	Phe	Glu	Gln	Glu	Asp	Asp	Met	Met	Glu	Val	Pro	Tyr	Val	Thr	
2635							2640					2645			
cct	cac	cct	cct	tat	cat	ttg	gga	gca	gtg	gct	aaa	acc	tgg	gaa	8986
Pro	His	Pro	Pro	Tyr	His	Leu	Gly	Ala	Val	Ala	Lys	Thr	Trp	Glu	
2650							2655					2660			
aat	aca	aag	gag	tct	cct	gct	aca	cat	tca	tca	aac	ttt	ctg	tat	9031
Asn	Thr	Lys	Glu	Ser	Pro	Ala	Thr	His	Ser	Ser	Asn	Phe	Leu	Tyr	
2665							2670					2675			
ggt	acc	atg	gtt	tca	tac	acc	tgt	aat	cca	gga	tat	gaa	ctt	ctg	9076
Gly	Thr	Met	Val	Ser	Tyr	Thr	Cys	Asn	Pro	Gly	Tyr	Glu	Leu	Leu	
2680							2685					2690			
ggg	aac	cct	gtg	ctg	atc	tgc	cag	gaa	gat	gga	act	tgg	aat	ggc	9121
Gly	Asn	Pro	Val	Leu	Ile	Cys	Gln	Glu	Asp	Gly	Thr	Trp	Asn	Gly	
2695							2700					2705			
agt	gca	cca	tcc	tgc	att	tca	att	gaa	tgt	gac	ttg	cct	act	gct	9166
Ser	Ala	Pro	Ser	Cys	Ile	Ser	Ile	Glu	Cys	Asp	Leu	Pro	Thr	Ala	
2710							2715					2720			
cct	gaa	aat	ggc	ttt	ttg	cgt	ttt	aca	gag	act	agc	atg	gga	agt	9211
Pro	Glu	Asn	Gly	Phe	Leu	Arg	Phe	Thr	Glu	Thr	Ser	Met	Gly	Ser	
2725							2730					2735			
gct	gtg	cag	tat	agc	tgt	aaa	cct	gga	cac	att	cta	gca	ggc	tct	9256
Ala	Val	Gln	Tyr	Ser	Cys	Lys	Pro	Gly	His	Ile	Leu	Ala	Gly	Ser	
2740							2745					2750			
gac	tta	agg	ctt	tgt	cta	gag	aat	aga	aag	tgg	agt	ggt	gcc	tcc	9301
Asp	Leu	Arg	Leu	Cys	Leu	Glu	Asn	Arg	Lys	Trp	Ser	Gly	Ala	Ser	
2755							2760					2765			
cca	cgc	tgt	gaa	gcc	att	tca	tgc	aaa	aag	cca	aat	cca	gtc	atg	9346
Pro	Arg	Cys	Glu	Ala	Ile	Ser	Cys	Lys	Lys	Pro	Asn	Pro	Val	Met	
2770							2775					2780			

SEQ LIST CEN0300 PCT 08.19.03.txt								
aat gga tcc	atc aaa gga agc aac	tac aca tac ctg agc	acg ttg					9391
Asn Gly Ser	Ile Lys Gly Ser	Asn Tyr Thr Tyr Leu	Ser Thr Leu					
2785	2790	2795						
tac tat gag	tgt gac ccc gga tat	gtg ctg aat ggc act	gag agg					9436
Tyr Tyr Glu	Cys Asp Pro Gly	Tyr Val Leu Asn Gly	Thr Glu Arg					
2800	2805	2810						
aga aca tgc	cag gat gac aaa aac	tgg gat gag gat	gag ccc att					9481
Arg Thr Cys	Gln Asp Asp Lys	Asn Trp Asp Glu Asp	Glu Pro Ile					
2815	2820	2825						
tgc att cct	gtg gac tgc agt	tca ccc cca gtc tca	gcc aat ggc					9526
Cys Ile Pro	Val Asp Cys Ser	Ser Pro Pro Val Ser	Ala Asn Gly					
2830	2835	2840						
cag gtg aga	gga gac gag tac	aca ttc caa aaa gag	att gaa tac					9571
Gln Val Arg	Gly Asp Glu Tyr	Thr Phe Gln Lys Glu	Ile Glu Tyr					
2845	2850	2855						
act tgc aat	gaa ggg ttc ttg	ctt gag gga gcc agg	agt cggt gtt					9616
Thr Cys Asn	Glu Gly Phe Leu	Leu Glu Gly Ala Arg	Ser Arg Val					
2860	2865	2870						
tgt ctt gcc	aat gga agt tgg	agt gga gcc act ccc	gac tgt gtg					9661
Cys Leu Ala	Asn Gly Ser Trp	Ser Gly Ala Thr Pro	Asp Cys Val					
2875	2880	2885						
cct gtc aga	tgt gcc acc ccg	cca caa ctg gcc aat	ggg gtg acg					9706
Pro Val Arg	Cys Ala Thr Pro	Pro Gln Leu Ala Asn	Gly Val Thr					
2890	2895	2900						
gaa ggc ctg	gac tat ggc ttc	atg aag gaa gta aca	ttc cac tgt					9751
Glu Gly Leu	Asp Tyr Gly Phe	Met Lys Glu Val Thr	Phe His Cys					
2905	2910	2915						
cac gag ggc	tac atc ttg cac	ggt gct cca aaa ctc	acc tgt cag					9796
His Glu Gly	Tyr Ile Leu His	Gly Ala Pro Lys Leu	Thr Cys Gln					
2920	2925	2930						
tca gat ggc	aac tgg gat gca	gag att cct ctc tgt	aaa cca gtc					9841
Ser Asp Gly	Asn Trp Asp Ala	Glu Ile Pro Leu Cys	Lys Pro Val					
2935	2940	2945						
aac tgt gga	cct cct gaa gat	ctt gcc cat ggt ttc	cct aat ggt					9886
Asn Cys Gly	Pro Pro Glu Asp	Leu Ala His Gly Phe	Pro Asn Gly					
2950	2955	2960						
ttt tcc ttt	att cat ggg ggc	cat ata cag tat cag	tgc ttt cct					9931
Phe Ser Phe	Ile His Gly Gly	His Ile Gln Tyr Gln	Cys Phe Pro					
2965	2970	2975						
ggt tat aag	ctc cat gga aat	tca tca aga agg tgc	ctc tcc aat					9976
Gly Tyr Lys	Leu His Gly Asn	Ser Ser Arg Arg Cys	Leu Ser Asn					
2980	2985	2990						
ggc tcc tgg	agt ggc agc tca	cct tcc tgc ctg cct	tgc aga tgt					10021
Gly Ser Trp	Ser Gly Ser Ser	Pro Ser Cys Leu Pro	Cys Arg Cys					
2995	3000	3005						
tcc aca cca	gta att gaa tat	gga act gtc aat ggg	aca gat ttt					10066
Ser Thr Pro	Val Ile Glu Tyr	Gly Thr Val Asn Gly	Thr Asp Phe					
3010	3015	3020						
gac tgt gga	aag gca gcc cgg	att cag tgc ttc aaa	ggc ttc aag					10111
Asp Cys Gly	Lys Ala Ala Arg	Ile Gln Cys Phe Lys	Gly Phe Lys					
3025	3030	3035						
ctc cta gga	ctt tct gaa atc	acc tgt gaa gcc gat	ggc cag tgg					10156
Leu Leu Gly	Leu Ser Glu Ile	Thr Cys Glu Ala Asp	Gly Gln Trp					
3040	3045	3050						
agc tct ggg	ttc ccc cac tgt	gaa cac act tct tgt	ggt tct ctt					10201
Ser Ser Gly	Phe Pro His Cys	Glu His Thr Ser Cys	Gly Ser Leu					
3055	3060	3065						
cca atg ata	cca aat gcg ttc atc	agt gag acc agc tct	tgg aag					10246
Pro Met Ile	Pro Asn Ala Phe Ile	Ser Glu Thr Ser Ser	Trp Lys					

SEQ LIST CEN0300 PCT 08.19.03.txt

3070	3075	3080				
gaa aat gtg	ata act tac agc	tgc	agg tct gga tat	gtc	ata caa	10291
Glu Asn Val	Ile Thr Tyr Ser	Cys	Arg Ser Gly Tyr	Val	Ile Gln	
3085	3090	3095				
ggc agt tca	gat ctg att tgt	aca	gag aaa ggg gta	tgg	agc cag	10336
Gly Ser Ser	Asp Leu Ile Cys	Thr	Glu Lys Gly Val	Trp	Ser Gln	
3100	3105	3110				
cct tat cca	gtc tgt gag ccc	ttg	tcc tgt ggg tcc	cca	ccg tct	10381
Pro Tyr Pro	Val Cys Glu Pro	Leu	Ser Cys Gly Ser	Pro	Pro Ser	
3115	3120	3125				
gtc gcc aat	gca gtg gca act	gga	gag gca cac acc	tat	gaa agt	10426
Val Ala Asn	Ala Val Ala Thr	Gly	Glu Ala His Thr	Tyr	Glu Ser	
3130	3135	3140				
gaa gtg aaa	ctc aga tgt ctg	gaa	ggt tat acg atg	gat	aca gat	10471
Glu Val Lys	Leu Arg Cys Leu	Glu	Gly Tyr Thr Met	Asp	Thr Asp	
3145	3150	3155				
aca gat aca	ttc acc tgt cag	aaa	gat ggt cgc tgg	ttc	cct gag	10516
Thr Asp Thr	Phe Thr Cys Gln	Lys	Asp Gly Arg Trp	Phe	Pro Glu	
3160	3165	3170				
aga atc tcc	tgc agt cct aaa	aaa	tgt cct ctc ccg	gaa	aac ata	10561
Arg Ile Ser	Cys Ser Pro Lys	Lys	Cys Pro Leu Pro	Glu	Asn Ile	
3175	3180	3185				
aca cat ata	ctt gta cat ggg	gac	gat ttc agt gtg	aat	agg caa	10606
Thr His Ile	Leu Val His Gly	Asp	Asp Phe Ser Val	Asn	Arg Gln	
3190	3195	3200				
gtt tct gtg	tca tgt gca gaa	ggg	tat acc ttt gag	gga	gtt aac	10651
Val Ser Val	Ser Cys Ala Glu	Gly	Tyr Thr Phe Glu	Gly	Val Asn	
3205	3210	3215				
ata tca gta	tgt cag ctt gat	gga	acc tgg gag cca	cca	ttc tcc	10696
Ile Ser Val	Cys Gln Leu Asp	Gly	Thr Trp Glu Pro	Pro	Phe Ser	
3220	3225	3230				
gat gaa tct	tgc agt cca gtt	tct	tgt ggg aaa cct	gaa	agt cca	10741
Asp Glu Ser	Cys Ser Pro Val	Ser	Cys Gly Lys Pro	Glu	Ser Pro	
3235	3240	3245				
gaa cat gga	ttt gtg gtt ggc	agt	aaa tac acc ttt	gaa	agc aca	10786
Glu His Gly	Phe Val Val Gly	Ser	Lys Tyr Thr Phe	Glu	Ser Thr	
3250	3255	3260				
att att tat	cag tgt gag cct	ggc	tat gaa cta gag	ggg	aac agg	10831
Ile Ile Tyr	Gln Cys Glu Pro	Gly	Tyr Glu Leu Glu	Gly	Asn Arg	
3265	3270	3275				
gaa cgt gtc	tgc cag gag aac	aga	cag tgg agt gga	ggg	gtg gca	10876
Glu Arg Val	Cys Gln Glu Asn	Arg	Gln Trp Ser Gly	Gly	Val Ala	
3280	3285	3290				
ata tgc aaa	gag acc agg tgt	gaa	act cca ctt gaa	ttt	ctc aat	10921
Ile Cys Lys	Glu Thr Arg Cys	Glu	Thr Pro Leu Glu	Phe	Leu Asn	
3295	3300	3305				
ggg aaa gct	gac att gaa aac	agg	acg act gga ccc	aac	gtg gta	10966
Gly Lys Ala	Asp Ile Glu Asn	Arg	Thr Thr Gly Pro	Asn	Val Val	
3310	3315	3320				
tat tcc tgc	aac aga ggc tac	agt	ctt gaa ggg cca	tct	gag gca	11011
Tyr Ser Cys	Asn Arg Gly Tyr	Ser	Leu Glu Gly Pro	Ser	Glu Ala	
3325	3330	3335				
cac tgc aca	gaa aat gga acc	tgg	agc cac cca gtc	cct	ctc tgc	11056
His Cys Thr	Glu Asn Gly Thr	Trp	Ser His Pro Val	Pro	Leu Cys	
3340	3345	3350				
aaa cca aat	cca tgc cct gtt	cct	ttt gtg att ccc	gag	aat gct	11101
Lys Pro Asn	Pro Cys Pro Val	Pro	Phe Val Ile Pro	Glu	Asn Ala	
3355	3360	3365				
ctg ctg tct	gaa aag gag ttt	tat	gtt gat cag aat	gtg	tcc atc	11146

SEQ LIST CEN0300 PCT 08.19.03.txt

Leu	Leu	Ser	Glu	Lys	Glu	Phe	Tyr	Val	Asp	Gln	Asn	Val	Ser	Ile	
3370			3375				3380								
aaa	tgt	agg	gaa	ggg	ttt	ctg	ctg	cag	ggc	cac	ggc	atc	att	acc	11191
Lys	Cys	Arg	Glu	Gly	Phe	Leu	Leu	Gln	Gly	His	Gly	Ile	Ile	Thr	
3385			3390				3395								
tgc	aac	ccc	gac	gag	acg	tgg	aca	cag	aca	agc	gcc	aaa	tgt	gaa	11236
Cys	Asn	Pro	Asp	Glu	Thr	Trp	Thr	Gln	Thr	Ser	Ala	Lys	Cys	Glu	
3400			3405				3410								
aaa	atc	tca	tgt	ggg	cca	cca	gct	cac	gta	gaa	aat	gca	att	gct	11281
Lys	Ile	Ser	Cys	Gly	Pro	Pro	Ala	His	Val	Glu	Asn	Ala	Ile	Ala	
3415			3420				3425								
cga	ggc	gta	cat	tat	caa	tat	gga	gac	atg	atc	acc	tac	tca	tgt	11326
Arg	Gly	Val	His	Tyr	Gln	Tyr	Gly	Asp	Met	Ile	Thr	Tyr	Ser	Cys	
3430			3435				3440								
tac	agt	gga	tac	atg	ttg	gag	ggt	ttc	ctg	agg	agt	gtt	tgt	tta	11371
Tyr	Ser	Gly	Tyr	Met	Leu	Glu	Gly	Phe	Leu	Arg	Ser	Val	Cys	Leu	
3445			3450				3455								
gaa	aat	gga	aca	tgg	aca	tca	cct	cct	att	tgc	aga	gct	gtc	tgt	11416
Glu	Asn	Gly	Thr	Trp	Thr	Ser	Pro	Pro	Ile	Cys	Arg	Ala	Val	Cys	
3460			3465				3470								
cga	ttt	cca	tgt	cag	aat	ggg	ggc	atc	tgc	caa	cgc	cca	aat	gct	11461
Arg	Phé	Pro	Cys	Gln	Asn	Gly	Gly	Ile	Cys	Gln	Arg	Pro	Asn	Ala	
3475			3480				3485								
tgt	tcc	tgt	cca	gag	ggc	tgg	atg	ggg	cgc	ctc	tgt	gaa	gaa	cca	11506
Cys	Ser	Cys	Pro	Glu	Gly	Trp	Met	Gly	Arg	Leu	Cys	Glu	Glu	Pro	
3490			3495				3500								
atc	tgc	att	ctt	ccc	tgt	ctg	aac	gga	ggg	cgc	tgt	gtg	gcc	cct	11551
Ile	Cys	Ile	Leu	Pro	Cys	Leu	Asn	Gly	Gly	Arg	Cys	Val	Ala	Pro	
3505			3510				3515								
tac	cag	tgt	gac	tgc	ccg	cct	ggc	tgg	acg	ggg	tct	cgc	tgt	cat	11596
Tyr	Gln	Cys	Asp	Cys	Pro	Pro	Gly	Trp	Thr	Gly	Ser	Arg	Cys	His	
3520			3525				3530								
aca	gct	gtt	tgc	cag	tct	ccc	tgc	tta	aat	ggg	gga	aaa	tgt	gta	11641
Thr	Ala	Val	Cys	Gln	Ser	Pro	Cys	Leu	Asn	Gly	Gly	Lys	Cys	Val	
3535			3540				3545								
aga	cca	aac	cga	tgt	cac	tgt	ctt	tct	tct	tgg	acg	gga	cat	aac	11686
Arg	Pro	Asn	Arg	Cys	His	Cys	Leu	Ser	Ser	Trp	Thr	Gly	His	Asn	
3550			3555				3560								
tgt	tcc	agg	aaa	agg	agg	act	ggg	ttt	taa	ccactgcacg	accatctggc			11736	
Cys	Ser	Arg	Lys	Arg	Arg	Thr	Gly	Phe							
3565			3570												
tctcccaaaa	gcaggatcat	ctctccctcg	tagtgccctgg	gcatcctgg	acttatgcaa										11796
agaaaagtcca	acatgggtgct	gggtcttgg	tagtaaaactt	gttacttggg	gttacttttt										11856
ttattttgtg	atatattttg	ttatcccttg	tgacataactt	tcttacatgt	ttccattttt										11916
aaatatgcct	gtattttcata	tataaaaatt	atattaata	gatgctgcta	caaaaatgtaa										11976
aaaaaaaaaaaa	aaaaaaaaaaaa														11996

<210> 2
<211> 3571

<212> PRT
<213> Homo sapiens

<400> 2

Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser
1 5 10 15

Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe
20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala
35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu

SEQ LIST CEN0300 PCT 08.19.03.txt

50	55	60
Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Glu		
65	70	75
Arg Leu Glu Leu Val Phe Leu Val Asp Asp Ser Ser Ser Val Gly Glu		80
85	90	95
Val Asn Phe Arg Ser Glu Leu Met Phe Val Arg Lys Leu Leu Ser Asp		
100	105	110
Phe Pro Val Val Pro Thr Ala Thr Arg Val Ala Ile Val Thr Phe Ser		
115	120	125
Ser Lys Asn Tyr Val Val Pro Arg Val Asp Tyr Ile Ser Thr Arg Arg		
130	135	140
Ala Arg Gln His Lys Cys Ala Leu Leu Leu Gln Glu Ile Pro Ala Ile		
145	150	155
Ser Tyr Arg Gly Gly Thr Tyr Thr Lys Gly Ala Phe Gln Gln Ala		160
165	170	175
Ala Gln Ile Leu Leu His Ala Arg Glu Asn Ser Thr Lys Val Val Phe		
180	185	190
Leu Ile Thr Asp Gly Tyr Ser Asn Gly Gly Asp Pro Arg Pro Ile Ala		
195	200	205
Ala Ser Leu Arg Asp Ser Gly Val Glu Ile Phe Thr Phe Gly Ile Trp		
210	215	220
Gln Gly Asn Ile Arg Glu Leu Asn Asp Met Ala Ser Thr Pro Lys Glu		
225	230	235
Glu His Cys Tyr Leu Leu His Ser Phe Glu Glu Phe Glu Ala Leu Ala		
245	250	255
Arg Arg Ala Leu His Glu Asp Leu Pro Ser Gly Ser Phe Ile Gln Asp		
260	265	270
Asp Met Val His Cys Ser Tyr Leu Cys Asp Glu Gly Lys Asp Cys Cys		
275	280	285
Asp Arg Met Gly Ser Cys Lys Cys Gly Thr His Thr Gly His Phe Glu		
290	295	300
Cys Ile Cys Glu Lys Gly Tyr Tyr Gly Lys Gly Leu Gln Tyr Glu Cys		
305	310	315
Thr Ala Cys Pro Ser Gly Thr Tyr Lys Pro Glu Gly Ser Pro Gly Gly		
325	330	335
Ile Ser Ser Cys Ile Pro Cys Pro Asp Glu Asn His Thr Ser Pro Pro		
340	345	350
Gly Ser Thr Ser Pro Glu Asp Cys Val Cys Arg Glu Gly Tyr Arg Ala		
355	360	365
Ser Gly Gln Thr Cys Glu Leu Val His Cys Pro Ala Leu Lys Pro Pro		
370	375	380
Glu Asn Gly Tyr Phe Ile Gln Asn Thr Cys Asn Asn His Phe Asn Ala		
385	390	395
400		
Ala Cys Gly Val Arg Cys His Pro Gly Phe Asp Leu Val Gly Ser Ser		
405	410	415
Ile Ile Leu Cys Leu Pro Asn Gly Leu Trp Ser Gly Ser Glu Ser Tyr		
420	425	430
Cys Arg Val Arg Thr Cys Pro His Leu Arg Gln Pro Lys His Gly His		
435	440	445
Ile Ser Cys Ser Thr Arg Glu Met Leu Tyr Lys Thr Thr Cys Leu Val		
450	455	460
Ala Cys Asp Glu Gly Tyr Arg Leu Glu Gly Ser Asp Lys Leu Thr Cys		
465	470	475
480		
Gln Gly Asn Ser Gln Trp Asp Gly Pro Glu Pro Arg Cys Val Glu Arg		
485	490	495
His Cys Ser Thr Phe Gln Met Pro Lys Asp Val Ile Ile Ser Pro His		
500	505	510
Asn Cys Gly Lys Gln Pro Ala Lys Phe Gly Thr Ile Cys Tyr Val Ser		
515	520	525

SEQ LIST CEN0300 PCT 08.19.03.txt

Cys Arg Gln Gly Phe Ile Leu Ser Gly Val Lys Glu Met Leu Arg Cys
 530 535 540
 Thr Thr Ser Gly Lys Trp Asn Val Gly Val Gln Ala Ala Val Cys Lys
 545 550 555 560
 Asp Val Glu Ala Pro Gln Ile Asn Cys Pro Lys Asp Ile Glu Ala Lys
 565 570 575
 Thr Leu Glu Gln Gln Asp Ser Ala Asn Val Thr Trp Gln Ile Pro Thr
 580 585 590
 Ala Lys Asp Asn Ser Gly Glu Lys Val Ser Val His Val His Pro Ala
 595 600 605
 Phe Thr Pro Pro Tyr Leu Phe Pro Ile Gly Asp Val Ala Ile Val Tyr
 610 615 620
 Thr Ala Thr Asp Leu Ser Gly Asn Gln Ala Ser Cys Ile Phe His Ile
 625 630 635 640
 Lys Val Ile Asp Ala Glu Pro Pro Val Ile Asp Trp Cys Arg Ser Pro
 645 650 655
 Pro Pro Val Gln Val Ser Glu Lys Val His Ala Ala Ser Trp Asp Glu
 660 665 670
 Pro Gln Phe Ser Asp Asn Ser Gly Ala Glu Leu Val Ile Thr Arg Ser
 675 680 685
 His Thr Gln Gly Asp Leu Phe Pro Gln Gly Glu Thr Ile Val Gln Tyr
 690 695 700
 Thr Ala Thr Asp Pro Ser Gly Asn Asn Arg Thr Cys Asp Ile His Ile
 705 710 715 720
 Val Ile Lys Gly Ser Pro Cys Glu Ile Pro Phe Thr Pro Val Asn Gly
 725 730 735
 Asp Phe Ile Cys Thr Pro Asp Asn Thr Gly Val Asn Cys Thr Leu Thr
 740 745 750
 Cys Leu Glu Gly Tyr Asp Phe Thr Glu Gly Ser Thr Asp Lys Tyr Tyr
 755 760 765
 Cys Ala Tyr Glu Asp Gly Val Trp Lys Pro Thr Tyr Thr Thr Glu Trp
 770 775 780
 Pro Asp Cys Ala Lys Lys Arg Phe Ala Asn His Gly Phe Lys Ser Phe
 785 790 795 800
 Glu Met Phe Tyr Lys Ala Ala Arg Cys Asp Asp Thr Asp Leu Met Lys
 805 810 815
 Lys Phe Ser Glu Ala Phe Glu Thr Thr Leu Gly Lys Met Val Pro Ser
 820 825 830
 Phe Cys Ser Asp Ala Glu Asp Ile Asp Cys Arg Leu Glu Glu Asn Leu
 835 840 845
 Thr Lys Lys Tyr Cys Leu Glu Tyr Asn Tyr Asp Tyr Glu Asn Gly Phe
 850 855 860
 Ala Ile Gly Pro Gly Gly Trp Gly Ala Ala Asn Arg Leu Asp Tyr Ser
 865 870 875 880
 Tyr Asp Asp Phe Leu Asp Thr Val Gln Glu Thr Ala Thr Ser Ile Gly
 885 890 895
 Asn Ala Lys Ser Ser Arg Ile Lys Arg Ser Ala Pro Leu Ser Asp Tyr
 900 905 910
 Lys Ile Lys Leu Ile Phe Asn Ile Thr Ala Ser Val Pro Leu Pro Asp
 915 920 925
 Glu Arg Asn Asp Thr Leu Glu Trp Glu Asn Gln Gln Arg Leu Leu Gln
 930 935 940
 Thr Leu Glu Thr Ile Thr Asn Lys Leu Lys Arg Thr Leu Asn Lys Asp
 945 950 955 960
 Pro Met Tyr Ser Phe Gln Leu Ala Ser Glu Ile Leu Ile Ala Asp Ser
 965 970 975
 Asn Ser Leu Glu Thr Lys Lys Ala Ser Pro Phe Cys Arg Pro Gly Ser
 980 985 990
 Val Leu Arg Gly Arg Met Cys Val Asn Cys Pro Leu Gly Thr Tyr Tyr

SEQ LIST CEN0300 PCT 08.19.03.txt

995	1000	1005
Asn	Leu	Glu His Phe Thr Cys Glu Ser Cys Arg Ile Gly Ser Tyr
1010	1015	1020
Gln	Asp	Glu Glu Gly Gln Leu Glu Cys Lys Leu Cys Pro Ser Gly
1025	1030	1035
Met	Tyr	Thr Glu Tyr Ile His Ser Arg Asn Ile Ser Asp Cys Lys
1040	1045	1050
Ala	Gln	Cys Lys Gln Gly Thr Tyr Ser Tyr Ser Gly Leu Glu Thr
1055	1060	1065
Cys	Glu	Ser Cys Pro Leu Gly Thr Tyr Gln Pro Lys Phe Gly Ser
1070	1075	1080
Arg	Ser	Cys Leu Ser Cys Pro Glu Asn Thr Ser Thr Val Lys Arg
1085	1090	1095
Gly	Ala	Val Asn Ile Ser Ala Cys Gly Val Pro Cys Pro Glu Gly
1100	1105	1110
Lys	Phe	Ser Arg Ser Gly Leu Met Pro Cys His Pro Cys Pro Arg
1115	1120	1125
Asp	Tyr	Tyr Gln Pro Asn Ala Gly Lys Ala Phe Cys Leu Ala Cys
1130	1135	1140
Pro	Phe	Tyr Gly Thr Thr Pro Phe Ala Gly Ser Arg Ser Ile Thr
1145	1150	1155
Glu	Cys	Ser Ser Phe Ser Ser Thr Phe Ser Ala Ala Glu Glu Ser
1160	1165	1170
Val	Val	Pro Pro Ala Ser Leu Gly His Ile Lys Lys Arg His Glu
1175	1180	1185
Ile	Ser	Ser Gln Val Phe His Glu Cys Phe Phe Asn Pro Cys His
1190	1195	1200
Asn	Ser	Gly Thr Cys Gln Gln Leu Gly Arg Gly Tyr Val Cys Leu
1205	1210	1215
Cys	Pro	Leu Gly Tyr Thr Gly Leu Lys Cys Glu Thr Asp Ile Asp
1220	1225	1230
Glu	Cys	Ser Pro Leu Pro Cys Leu Asn Asn Gly Val Cys Lys Asp
1235	1240	1245
Leu	Val	Gly Glu Phe Ile Cys Glu Cys Pro Ser Gly Tyr Thr Gly
1250	1255	1260
Gln	Arg	Cys Glu Glu Asn Ile Asn Glu Cys Ser Ser Pro Cys
1265	1270	1275
Leu	Asn	Lys Gly Ile Cys Val Asp Gly Val Ala Gly Tyr Arg Cys
1280	1285	1290
Thr	Cys	Val Lys Gly Phe Val Gly Leu His Cys Glu Thr Glu Val
1295	1300	1305
Asn	Glu	Cys Gln Ser Asn Pro Cys Leu Asn Asn Ala Val Cys Glu
1310	1315	1320
Asp	Gln	Val Gly Gly Phe Leu Cys Lys Cys Pro Pro Gly Phe Leu
1325	1330	1335
Gly	Thr	Arg Cys Gly Lys Asn Val Asp Glu Cys Leu Ser Gln Pro
1340	1345	1350
Cys	Lys	Asn Gly Ala Thr Cys Lys Asp Gly Ala Asn Ser Phe Arg
1355	1360	1365
Cys	Leu	Cys Ala Ala Gly Phe Thr Gly Ser His Cys Glu Leu Asn
1370	1375	1380
Ile	Asn	Glu Cys Gln Ser Asn Pro Cys Arg Asn Gln Ala Thr Cys
1385	1390	1395
Val	Asp	Glu Leu Asn Ser Tyr Ser Cys Lys Cys Gln Pro Gly Phe
1400	1405	1410
Ser	Gly	Lys Arg Cys Glu Thr Glu Gln Ser Thr Gly Phe Asn Leu
1415	1420	1425
Asp	Phe	Glu Val Ser Gly Ile Tyr Gly Tyr Val Met Leu Asp Gly
1430	1435	1440

SEQ LIST CEN0300 PCT 08.19.03.txt

Met	Leu	Pro	Ser	Leu	His	Ala	Leu	Thr	Cys	Thr	Phe	Trp	Met	Lys
1445						1450					1455			
Ser	Ser	Asp	Asp	Met	Asn	Tyr	Gly	Thr	Pro	Ile	Ser	Tyr	Ala	Val
1460						1465					1470			
Asp	Asn	Gly	Ser	Asp	Asn	Thr	Leu	Leu	Leu	Thr	Asp	Tyr	Asn	Gly
1475						1480					1485			
Trp	Val	Leu	Tyr	Val	Asn	Gly	Arg	Glu	Lys	Ile	Thr	Asn	Cys	Pro
1490						1495					1500			
Ser	Val	Asn	Asp	Gly	Arg	Trp	His	His	Ile	Ala	Ile	Thr	Trp	Thr
1505						1510					1515			
Ser	Ala	Asn	Gly	Ile	Trp	Lys	Val	Tyr	Ile	Asp	Gly	Lys	Leu	Ser
1520						1525					1530			
Asp	Gly	Gly	Ala	Gly	Leu	Ser	Val	Gly	Leu	Pro	Ile	Pro	Gly	Gly
1535						1540					1545			
Gly	Ala	Leu	Val	Leu	Gly	Gln	Glu	Gln	Asp	Lys	Lys	Gly	Glu	Gly
1550						1555					1560			
Phe	Ser	Pro	Ala	Glu	Ser	Phe	Val	Gly	Ser	Ile	Ser	Gln	Leu	Asn
1565						1570					1575			
Leu	Trp	Asp	Tyr	Val	Leu	Ser	Pro	Gln	Gln	Val	Lys	Ser	Leu	Ala
1580						1585					1590			
Thr	Ser	Cys	Pro	Glu	Glu	Leu	Ser	Lys	Gly	Asn	Val	Leu	Ala	Trp
1595						1600					1605			
Pro	Asp	Phe	Leu	Ser	Gly	Ile	Val	Gly	Lys	Val	Lys	Ile	Asp	Ser
1610						1615					1620			
Lys	Ser	Ile	Phe	Cys	Ser	Asp	Cys	Pro	Arg	Leu	Gly	Gly	Ser	Val
1625						1630					1635			
Pro	His	Leu	Arg	Thr	Ala	Ser	Glu	Asp	Leu	Lys	Pro	Gly	Ser	Lys
1640						1645					1650			
Val	Asn	Leu	Phe	Cys	Asp	Pro	Gly	Phe	Gln	Leu	Val	Gly	Asn	Pro
1655						1660					1665			
Val	Gln	Tyr	Cys	Leu	Asn	Gln	Gly	Gln	Trp	Thr	Gln	Pro	Leu	Pro
1670						1675					1680			
His	Cys	Glu	Arg	Ile	Ser	Cys	Gly	Val	Pro	Pro	Pro	Leu	Glu	Asn
1685						1690					1695			
Gly	Phe	His	Ser	Ala	Asp	Asp	Phe	Tyr	Ala	Gly	Ser	Thr	Val	Thr
1700						1705					1710			
Tyr	Gln	Cys	Asn	Asn	Gly	Tyr	Tyr	Leu	Leu	Gly	Asp	Ser	Arg	Met
1715						1720					1725			
Phe	Cys	Thr	Asp	Asn	Gly	Ser	Trp	Asn	Gly	Val	Ser	Pro	Ser	Cys
1730						1735					1740			
Leu	Asp	Val	Asp	Glu	Cys	Ala	Val	Gly	Ser	Asp	Cys	Ser	Glu	His
1745						1750					1755			
Ala	Ser	Cys	Leu	Asn	Val	Asp	Gly	Ser	Tyr	Ile	Cys	Ser	Cys	Val
1760						1765					1770			
Pro	Pro	Tyr	Thr	Gly	Asp	Gly	Lys	Asn	Cys	Ala	Glu	Pro	Ile	Lys
1775						1780					1785			
Cys	Lys	Ala	Pro	Gly	Asn	Pro	Glu	Asn	Gly	His	Ser	Ser	Gly	Glu
1790						1795					1800			
Ile	Tyr	Thr	Val	Gly	Ala	Ala	Val	Thr	Phe	Ser	Cys	Gln	Glu	Gly
1805						1810					1815			
Tyr	Gln	Leu	Met	Gly	Val	Thr	Lys	Ile	Thr	Cys	Leu	Glu	Ser	Gly
1820						1825					1830			
Glu	Trp	Asn	His	Leu	Ile	Pro	Tyr	Cys	Lys	Ala	Val	Ser	Cys	Gly
1835						1840					1845			
Lys	Pro	Ala	Ile	Pro	Glu	Asn	Gly	Cys	Ile	Glu	Glu	Leu	Ala	Phe
1850						1855					1860			
Thr	Phe	Gly	Ser	Lys	Val	Thr	Tyr	Arg	Cys	Asn	Lys	Gly	Tyr	Thr
1865						1870					1875			
Leu	Ala	Gly	Asp	Lys	Glu	Ser	Ser	Cys	Leu	Ala	Asn	Ser	Ser	Trp

SEQ LIST CEN0300 PCT 08.19.03.txt

1880	Ser	His	Ser	Pro	Pro	Val	Cys	Glu	Pro	Val	Lys	Cys	Ser	Ser	Pro
1895							1900					1905			
	Glu	Asn	Ile	Asn	Asn	Gly	Lys	Tyr	Ile	Leu	Ser	Gly	Leu	Thr	Tyr
1910							1915					1920			
	Leu	Ser	Thr	Ala	Ser	Tyr	Ser	Cys	Asp	Thr	Gly	Tyr	Ser	Leu	Gln
1925							1930					1935			
	Gly	Pro	Ser	Ile	Ile	Glu	Cys	Thr	Ala	Ser	Gly	Ile	Trp	Asp	Arg
1940							1945					1950			
	Ala	Pro	Pro	Ala	Cys	His	Leu	Val	Phe	Cys	Gly	Glu	Pro	Pro	Ala
1955							1960					1965			
	Ile	Lys	Asp	Ala	Val	Ile	Thr	Gly	Asn	Asn	Phe	Thr	Phe	Arg	Asn
1970							1975					1980			
	Thr	Val	Thr	Tyr	Thr	Cys	Lys	Glu	Gly	Tyr	Thr	Leu	Ala	Gly	Leu
1985							1990					1995			
	Asp	Thr	Ile	Glu	Cys	Leu	Ala	Asp	Gly	Lys	Trp	Ser	Arg	Ser	Asp
2000							2005					2010			
	Gln	Gln	Cys	Leu	Ala	Val	Ser	Cys	Asp	Glu	Pro	Pro	Ile	Val	Asp
2015							2020					2025			
	His	Ala	Ser	Pro	Glu	Thr	Ala	His	Arg	Leu	Phe	Gly	Asp	Ile	Ala
2030							2035					2040			
	Phe	Tyr	Tyr	Cys	Ser	Asp	Gly	Tyr	Ser	Leu	Ala	Asp	Asn	Ser	Gln
2045							2050					2055			
	Leu	Leu	Cys	Asn	Ala	Gln	Gly	Lys	Trp	Val	Pro	Pro	Glu	Gly	Gln
2060							2065					2070			
	Asp	Met	Pro	Arg	Cys	Ile	Ala	His	Phe	Cys	Glu	Lys	Pro	Pro	Ser
2075							2080					2085			
	Val	Ser	Tyr	Ser	Ile	Leu	Glu	Ser	Val	Ser	Lys	Ala	Lys	Phe	Ala
2090							2095					2100			
	Ala	Gly	Ser	Val	Val	Ser	Phe	Lys	Cys	Met	Glu	Gly	Phe	Val	Leu
2105							2110					2115			
	Asn	Thr	Ser	Ala	Lys	Ile	Glu	Cys	Met	Arg	Gly	Gly	Gln	Trp	Asn
2120							2125					2130			
	Pro	Ser	Pro	Met	Ser	Ile	Gln	Cys	Ile	Pro	Val	Arg	Cys	Gly	Glu
2135							2140					2145			
	Pro	Pro	Ser	Ile	Met	Asn	Gly	Tyr	Ala	Ser	Gly	Ser	Asn	Tyr	Ser
2150							2155					2160			
	Phe	Gly	Ala	Met	Val	Ala	Tyr	Ser	Cys	Asn	Lys	Gly	Phe	Tyr	Ile
2165							2170					2175			
	Lys	Gly	Glu	Lys	Lys	Ser	Thr	Cys	Glu	Ala	Thr	Gly	Gln	Trp	Ser
2180							2185					2190			
	Ser	Pro	Ile	Pro	Thr	Cys	His	Pro	Val	Ser	Cys	Gly	Glu	Pro	Pro
2195							2200					2205			
	Lys	Val	Glu	Asn	Gly	Phe	Leu	Glu	His	Thr	Thr	Gly	Arg	Ile	Phe
2210							2215					2220			
	Glu	Ser	Glu	Val	Arg	Tyr	Gln	Cys	Asn	Pro	Gly	Tyr	Lys	Ser	Val
2225							2230					2235			
	Gly	Ser	Pro	Val	Phe	Val	Cys	Gln	Ala	Asn	Arg	His	Trp	His	Ser
2240							2245					2250			
	Glu	Ser	Pro	Leu	Met	Cys	Val	Pro	Leu	Asp	Cys	Gly	Lys	Pro	Pro
2255							2260					2265			
	Pro	Ile	Gln	Asn	Gly	Phe	Met	Lys	Gly	Glu	Asn	Phe	Glu	Val	Gly
2270							2275					2280			
	Ser	Lys	Val	Gln	Phe	Phe	Cys	Asn	Glu	Gly	Tyr	Glu	Leu	Val	Gly
2285							2290					2295			
	Asp	Ser	Ser	Trp	Thr	Cys	Gln	Lys	Ser	Gly	Lys	Trp	Asn	Lys	Lys
2300							2305					2310			
	Ser	Asn	Pro	Lys	Cys	Met	Pro	Ala	Lys	Cys	Pro	Glu	Pro	Pro	Leu
2315							2320					2325			

SEQ LIST CEN0300 PCT 08.19.03.txt
 Leu Glu Asn Gln Leu Val Leu Lys Glu Leu Thr Thr Glu Val Gly
 2330 2335 2340
 Val Val Thr Phe Ser Cys Lys Glu Gly His Val Leu Gln Gly Pro
 2345 2350 2355
 Ser Val Leu Lys Cys Leu Pro Ser Gln Gln Trp Asn Asp Ser Phe
 2360 2365 2370
 Pro Val Cys Lys Ile Val Leu Cys Thr Pro Pro Pro Leu Ile Ser
 2375 2380 2385
 Phe Gly Val Pro Ile Pro Ser Ser Ala Leu His Phe Gly Ser Thr
 2390 2395 2400
 Val Lys Tyr Ser Cys Val Gly Gly Phe Phe Leu Arg Gly Asn Ser
 2405 2410 2415
 Thr Thr Leu Cys Gln Pro Asp Gly Thr Trp Ser Ser Pro Leu Pro
 2420 2425 2430
 Glu Cys Val Pro Val Glu Cys Pro Gln Pro Glu Glu Ile Pro Asn
 2435 2440 2445
 Gly Ile Ile Asp Val Gln Gly Leu Ala Tyr Leu Ser Thr Ala Leu
 2450 2455 2460
 Tyr Thr Cys Lys Pro Gly Phe Glu Leu Val Gly Asn Thr Thr Thr
 2465 2470 2475
 Leu Cys Gly Glu Asn Gly His Trp Leu Gly Gly Lys Pro Thr Cys
 2480 2485 2490
 Lys Ala Ile Glu Cys Leu Lys Pro Lys Glu Ile Leu Asn Gly Lys
 2495 2500 2505
 Phe Ser Tyr Thr Asp Leu His Tyr Gly Gln Thr Val Thr Tyr Ser
 2510 2515 2520
 Cys Asn Arg Gly Phe Arg Leu Glu Gly Pro Ser Ala Leu Thr Cys
 2525 2530 2535
 Leu Glu Thr Gly Asp Trp Asp Val Asp Ala Pro Ser Cys Asn Ala
 2540 2545 2550
 Ile His Cys Asp Ser Pro Gln Pro Ile Glu Asn Gly Phe Val Glu
 2555 2560 2565
 Gly Ala Asp Tyr Ser Tyr Gly Ala Ile Ile Ile Tyr Ser Cys Phe
 2570 2575 2580
 Pro Gly Phe Gln Val Ala Gly His Ala Met Gln Thr Cys Glu Glu
 2585 2590 2595
 Ser Gly Trp Ser Ser Ser Ile Pro Thr Cys Met Pro Ile Asp Cys
 2600 2605 2610
 Gly Leu Pro Pro His Ile Asp Phe Gly Asp Cys Thr Lys Leu Lys
 2615 2620 2625
 Asp Asp Gln Gly Tyr Phe Glu Gln Glu Asp Asp Met Met Glu Val
 2630 2635 2640
 Pro Tyr Val Thr Pro His Pro Pro Tyr His Leu Gly Ala Val Ala
 2645 2650 2655
 Lys Thr Trp Glu Asn Thr Lys Glu Ser Pro Ala Thr His Ser Ser
 2660 2665 2670
 Asn Phe Leu Tyr Gly Thr Met Val Ser Tyr Thr Cys Asn Pro Gly
 2675 2680 2685
 Tyr Glu Leu Leu Gly Asn Pro Val Leu Ile Cys Gln Glu Asp Gly
 2690 2695 2700
 Thr Trp Asn Gly Ser Ala Pro Ser Cys Ile Ser Ile Glu Cys Asp
 2705 2710 2715
 Leu Pro Thr Ala Pro Glu Asn Gly Phe Leu Arg Phe Thr Glu Thr
 2720 2725 2730
 Ser Met Gly Ser Ala Val Gln Tyr Ser Cys Lys Pro Gly His Ile
 2735 2740 2745
 Leu Ala Gly Ser Asp Leu Arg Leu Cys Leu Glu Asn Arg Lys Trp
 2750 2755 2760
 Ser Gly Ala Ser Pro Arg Cys Glu Ala Ile Ser Cys Lys Lys Pro

SEQ LIST CEN0300 PCT 08.19.03.txt

2765		2770		2775										
Asn	Pro	Val	Met	Asn	Gly	Ser	Ile	Lys	Gly	Ser	Asn	Tyr	Thr	Tyr
2780				2785							2790			
Leu	Ser	Thr	Leu	Tyr	Tyr	Glu	Cys	Asp	Pro	Gly	Tyr	Val	Leu	Asn
2795					2800						2805			
Gly	Thr	Glu	Arg	Arg	Thr	Cys	Gln	Asp	Asp	Lys	Asn	Trp	Asp	Glu
2810					2815						2820			
Asp	Glu	Pro	Ile	Cys	Ile	Pro	Val	Asp	Cys	Ser	Ser	Pro	Pro	Val
2825					2830						2835			
Ser	Ala	Asn	Gly	Gln	Val	Arg	Gly	Asp	Glu	Tyr	Thr	Phe	Gln	Lys
2840					2845						2850			
Glu	Ile	Glu	Tyr	Thr	Cys	Asn	Glu	Gly	Phe	Leu	Leu	Glu	Gly	Ala
2855					2860						2865			
Arg	Ser	Arg	Val	Cys	Leu	Ala	Asn	Gly	Ser	Trp	Ser	Gly	Ala	Thr
2870					2875						2880			
Pro	Asp	Cys	Val	Pro	Val	Arg	Cys	Ala	Thr	Pro	Pro	Gln	Leu	Ala
2885					2890						2895			
Asn	Gly	Val	Thr	Glu	Gly	Leu	Asp	Tyr	Gly	Phe	Met	Lys	Glu	Val
2900					2905						2910			
Thr	Phe	His	Cys	His	Glu	Gly	Tyr	Ile	Leu	His	Gly	Ala	Pro	Lys
2915					2920						2925			
Leu	Thr	Cys	Gln	Ser	Asp	Gly	Asn	Trp	Asp	Ala	Glu	Ile	Pro	Leu
2930					2935						2940			
Cys	Lys	Pro	Val	Asn	Cys	Gly	Pro	Pro	Glu	Asp	Leu	Ala	His	Gly
2945					2950						2955			
Phe	Pro	Asn	Gly	Phe	Ser	Phe	Ile	His	Gly	Gly	His	Ile	Gln	Tyr
2960					2965						2970			
Gln	Cys	Phe	Pro	Gly	Tyr	Lys	Leu	His	Gly	Asn	Ser	Ser	Arg	Arg
2975					2980						2985			
Cys	Leu	Ser	Asn	Gly	Ser	Trp	Ser	Gly	Ser	Ser	Pro	Ser	Cys	Leu
2990					2995						3000			
Pro	Cys	Arg	Cys	Ser	Thr	Pro	Val	Ile	Glu	Tyr	Gly	Thr	Val	Asn
3005					3010						3015			
Gly	Thr	Asp	Phe	Asp	Cys	Gly	Lys	Ala	Ala	Arg	Ile	Gln	Cys	Phe
3020					3025						3030			
Lys	Gly	Phe	Lys	Leu	Leu	Gly	Leu	Ser	Glu	Ile	Thr	Cys	Glu	Ala
3035					3040						3045			
Asp	Gly	Gln	Trp	Ser	Ser	Gly	Phe	Pro	His	Cys	Glu	His	Thr	Ser
3050					3055						3060			
Cys	Gly	Ser	Leu	Pro	Met	Ile	Pro	Asn	Ala	Phe	Ile	Ser	Glu	Thr
3065					3070						3075			
Ser	Ser	Trp	Lys	Glu	Asn	Val	Ile	Thr	Tyr	Ser	Cys	Arg	Ser	Gly
3080					3085						3090			
Tyr	Val	Ile	Gln	Gly	Ser	Ser	Asp	Leu	Ile	Cys	Thr	Glu	Lys	Gly
3095					3100						3105			
Val	Trp	Ser	Gln	Pro	Tyr	Pro	Val	Cys	Glu	Pro	Leu	Ser	Cys	Gly
3110					3115						3120			
Ser	Pro	Pro	Ser	Val	Ala	Asn	Ala	Val	Ala	Thr	Gly	Glu	Ala	His
3125					3130						3135			
Thr	Tyr	Glu	Ser	Glu	Val	Lys	Leu	Arg	Cys	Leu	Glu	Gly	Tyr	Thr
3140					3145						3150			
Met	Asp	Thr	Asp	Thr	Asp	Thr	Phe	Thr	Cys	Gln	Lys	Asp	Gly	Arg
3155					3160						3165			
Trp	Phe	Pro	Glu	Arg	Ile	Ser	Cys	Ser	Pro	Lys	Lys	Cys	Pro	Leu
3170					3175						3180			
Pro	Glu	Asn	Ile	Thr	His	Ile	Leu	Val	His	Gly	Asp	Asp	Phe	Ser
3185					3190						3195			
Val	Asn	Arg	Gln	Val	Ser	Val	Ser	Cys	Ala	Glu	Gly	Tyr	Thr	Phe
3200					3205						3210			

SEQ LIST CEN0300 PCT 08.19.03.txt
 Glu Gly Val Asn Ile Ser Val Cys Gln Leu Asp Gly Thr Trp Glu
 3215 3220 3225
 Pro Pro Phe Ser Asp Glu Ser Cys Ser Pro Val Ser Cys Gly Lys
 3230 3235 3240
 Pro Glu Ser Pro Glu His Gly Phe Val Val Gly Ser Lys Tyr Thr
 3245 3250 3255
 Phe Glu Ser Thr Ile Ile Tyr Gln Cys Glu Pro Gly Tyr Glu Leu
 3260 3265 3270
 Glu Gly Asn Arg Glu Arg Val Cys Gln Glu Asn Arg Gln Trp Ser
 3275 3280 3285
 Gly Gly Val Ala Ile Cys Lys Glu Thr Arg Cys Glu Thr Pro Leu
 3290 3295 3300
 Glu Phe Leu Asn Gly Lys Ala Asp Ile Glu Asn Arg Thr Thr Gly
 3305 3310 3315
 Pro Asn Val Val Tyr Ser Cys Asn Arg Gly Tyr Ser Leu Glu Gly
 3320 3325 3330
 Pro Ser Glu Ala His Cys Thr Glu Asn Gly Thr Trp Ser His Pro
 3335 3340 3345
 Val Pro Leu Cys Lys Pro Asn Pro Cys Pro Val Pro Phe Val Ile
 3350 3355 3360
 Pro Glu Asn Ala Leu Leu Ser Glu Lys Glu Phe Tyr Val Asp Gln
 3365 3370 3375
 Asn Val Ser Ile Lys Cys Arg Glu Gly Phe Leu Leu Gln Gly His
 3380 3385 3390
 Gly Ile Ile Thr Cys Asn Pro Asp Glu Thr Trp Thr Gln Thr Ser
 3395 3400 3405
 Ala Lys Cys Glu Lys Ile Ser Cys Gly Pro Pro Ala His Val Glu
 3410 3415 3420
 Asn Ala Ile Ala Arg Gly Val His Tyr Gln Tyr Gly Asp Met Ile
 3425 3430 3435
 Thr Tyr Ser Cys Tyr Ser Gly Tyr Met Leu Glu Gly Phe Leu Arg
 3440 3445 3450
 Ser Val Cys Leu Glu Asn Gly Thr Trp Thr Ser Pro Pro Ile Cys
 3455 3460 3465
 Arg Ala Val Cys Arg Phe Pro Cys Gln Asn Gly Gly Ile Cys Gln
 3470 3475 3480
 Arg Pro Asn Ala Cys Ser Cys Pro Glu Gly Trp Met Gly Arg Leu
 3485 3490 3495
 Cys Glu Glu Pro Ile Cys Ile Leu Pro Cys Leu Asn Gly Gly Arg
 3500 3505 3510
 Cys Val Ala Pro Tyr Gln Cys Asp Cys Pro Pro Gly Trp Thr Gly
 3515 3520 3525
 Ser Arg Cys His Thr Ala Val Cys Gln Ser Pro Cys Leu Asn Gly
 3530 3535 3540
 Gly Lys Cys Val Arg Pro Asn Arg Cys His Cys Leu Ser Ser Trp
 3545 3550 3555
 Thr Gly His Asn Cys Ser Arg Lys Arg Arg Thr Gly Phe
 3560 3565 3570